	SECRET-	
	PROM:	50X
	SUBJECT: RS-13 Field Tests - 11 July to 15 July 1955	
	1. On 12 July 1955  drove to Receiving site near to observe the RS_13 base station equipment in operation.	50X1 50X1
·	2. At two types of receiving facilities were being used. The first consisted of the RHE-13 adapter unit with oscilloscope and two tape recorders. The RHE-13 operates with either an SP600 or 51J (255 or 500 kc IF) and converts the video output of the receiver to 10 kilocycles which is then passed through a very selective filter and on to the vertical plates of the oscilloscope. The tape recorders are used for recording the original 10 kilocycle transmission and subsequent speed reduction to awal copy levels. In the course of this speed reduction (16 to 1) the 10 kilocycle tone is also reduced by the same factor.	50X1
	The second method used to receive the RS_13 transmissions consisted of an AN/URA_SA with an RAPC undulator recording the incoming signals on inked tape directly after demodulation.	
	There is still some question as to which method is best, per- ticularly when used by qualified operators, however the RR-13 does have a slight advantage in scope presentation in that it is possible to identify the signal more readily when tuning.	
`	3. The propagation curves for the two field sites chosen reflected very poor conditions and they were borne out during the tests. The morning attempt from St. Louis was very poor with the	50X1
	by the base station. At this point the two Operations representatives had to return to Washington and were unable to observe the remainder of the field tests. A telephone conversation with	50X1\
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	SECRET DOC 23 REV DATE 20/3/90 BY CRIG COMP 33 OPI 56 TYPE CRIG CLASS S FAGRS ' REV CLUST	37609